

LIST OF PUBLICATIONS/MATERIALS CITED BY APPLICANT		<u>Attorney Docket No.</u>	<u>Serial No.</u>			
		PHO-104	191096, 832			
		<u>Applicant</u> ERIC WACHTER, et al.				
<u>Filing Date</u>		<u>Group</u>				
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
JR JR JR JR	5,034,613 5,656,186 5,618,285 5,720,894	7/23/91 8/12/97 4/08/97 2/24/98	Denk et al. Mourou et al. Zair Neev et al.	250 219 606 216	458.1 121.69 10 65	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	FILING DATE

OTHER PUBLICATIONS/MATERIALS (Including Author, Title, Date, Pertinent Pages)	
JR JR JR JR	<ul style="list-style-type: none"> - Jean-Luc Boulnois, "Photophysical Processes in Recent Medical Laser Developments: A Review" Lasers in Med. Sci. Vol. 1, pp. 47-66 (1986) - Anita M.R. Fisher, et al. "Clinical and Preclinical Photodynamic Therapy" Lasers in Surgery and Medicine 17:2-31, pp. 2-31 (1995) - Antony R. Young, "Photocarcinogenicity of Psoralens Used In Puva Treatment: Present Status In Mouse and Man" Journal of Photochem. and Photobiol. B: Biology, 6, pp. 237-247 (1990) - M.J. Wirth, et al. "Two-Photon Excited Molecular Fluorescence in Optically Dense Media" Analytical Chem. Vol. 49, no. 13, pp. 2054-2057 (11/1977)

EXAMINER:	<i>Jordyn Debra Pan</i>	DATE CONSIDERED:
		4/19/01

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP form. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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U.S. PATENT DOCUMENTS						
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FOREIGN PATENT DOCUMENTS						
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OTHER PUBLICATIONS/MATERIALS (Including Author, Title, Date, Pertinent Pages)	
<i>JR</i>	<ul style="list-style-type: none"> - E.A. Wachter, Fisher et al. "Titanium: Sapphire Laser as an Excitation Source In Two-Photon Spectroscopy" Applied Spectroscopy, Vol. 51, no. 2, pp. 218-226 (1997)
<i>JR</i>	<ul style="list-style-type: none"> - Sun-Yung Chen, et al. "Theory of two-photon induced fluorescence anisotropy decay in membranes" Biophys. J. Biophysical Society, Vol. 64, pp. 1567-1575 (5/1993)
<i>JR</i>	<ul style="list-style-type: none"> - Joseph R. Lakowicz, et al. "Two-Color Two-Photon Excitation of Fluorescence" Photochemistry and Photobiology, pp. 632-635 (1996)
<i>JR</i>	<ul style="list-style-type: none"> - George C. Nieman, et al. "A new electronic state of ammonia observed by multiphoton ionization", J. Chem. Phys. 68(12) pp. 5656-5657 (1978)
<i>JL</i>	<ul style="list-style-type: none"> - Philip M. Johnson, "The multiphoton ionization spectrum of benzene" Journal of Chemical Physics, Vol. 64, No. 10, 4143-4148 (5/1976)

EXAMINER:	DATE CONSIDERED:
<i>Jordan Peas</i>	4/19/01

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FOREIGN PATENT DOCUMENTS

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OTHER PUBLICATIONS/MATERIALS
(Including Author, Title, Date, Pertinent Pages)

JR

- P.M. Johnson, et al. "The Discovery of a 3p Rydberg State in Benzene By Three-Photon Resonant Multiphoton Ionization Spectroscopy" Chemical Physics Letters, pp. 53-56 (1983)

JR

- S.G. Grubb, et al. "The three-photon spectrum of the $^1B_{2u}$ - $^1A_{1g}$ transition in benzene: Analysis of vibronic and rotational structure" J. Chem. Phys. 81 (12), American Institute of Physics, pp. 5255-5265 (1984)

JR

- J.R. Cable, et al. "A condensed phase study of the benzene B_{2u} - $^1A_{1g}$ three-photon transition" J. Chem. Phys. 85 (6), American Institute of Physics, pp. 3155-3164 (1986)

JR

- Philip M. Johnson, "The multiphoton ionization spectrum of trans-1,3 butadiene" Journal of Chem. Physics, Vol. 64, No. 11, pp. 4638-4644 (1976)

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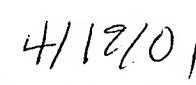
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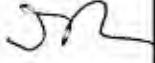
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OTHER PUBLICATIONS/MATERIALS (Including Author, Title, Date, Pertinent Pages)	
   	<ul style="list-style-type: none"> - Mark Seaver, et al. "Double Resonance Multiphoton Ionization Studies of High Rydberg States in NO", J. Phys. Chem., 1983, 87, pp. 2226-2231. American Chemical Society - Bennett H. Rockney, et al. "Multiphoton ionization of nitrogen dioxide: Four photon spectroscopy of the n_{D}, Rydberg series", J. Chem. Phys. Vol. 78, No. 12, (1983) - Ruth McDiarmid, et al. "Four-photon Resonant Multiphoton Ionization Spectroscopy", Chemical Physics Letters Vol. 76, No. 3, (1980) - D.L. Andrews, et al. "Polarization studies in multiphoton absorption spectroscopy", American Institute of Physics, J. Chem. Phys. 75(2), pp. 530-538 (1981)

EXAMINER:		DATE CONSIDERED:	
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP form. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.</p>			

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OTHER PUBLICATIONS/MATERIALS (Including Author, Title, Date, Pertinent Pages)	
	<ul style="list-style-type: none"> - Ignacy Gryczynski, et al. "Fluorescence Spectral Properties of Troponin C Mutant F22W with One-, Two-, and Three-Photon Excitation", Biophysical Journal, Vol. 71, pp. 3448-3453 (1996)
	<ul style="list-style-type: none"> - Joseph R. Lakowicz, et al. "Time-Resolved Fluorescence Spectroscopy and Imaging of DNA Labeled with DAPI and Hoechst 33342 Using Three-Photon Excitation", Biophysical Journal, Vol. 72, pp. 567-578 (1997)
	<ul style="list-style-type: none"> - Ignacy Gryczynski, et al. "Rapid Communication - On the Possibility of Calcium Imaging Using INDO-1 With Three-Photon Excitation", Photochem. & Photobiology, Vol. 62, No. 4, pp. 804-808 (1995)
	<ul style="list-style-type: none"> - Henryk Szmacinski, et al. "Three-Photon Induced Fluorescence of the Calcium Probe Indo-1", Biophysical Journal, Vol. 70, pp. 547-555 (1996)

EXAMINER:	DATE CONSIDERED:
	4/19/01
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	FILING DATE

OTHER PUBLICATIONS/MATERIALS
(Including Author, Title, Date, Pertinent Pages)

JR

- Guoqiang Xing, et al. "Modulation of resonant multiphoton ionization of CH₃I by laser phase variation", American Institute of Physics, J. Chem. Phys. 104(3), pp. 826-831 (1996)

JR

- Xuebin Wang, et al. "Phase control of absorption in large polyatomic molecules" American Institute of Physics, J. Chem. Phys. 105(8), pp. 2992-2997 (1996)

JR

- Flam, "Laser Chemistry: The Light Choice", Science, Vol. 266, pp. 215-217 (1994)

JR

- Christopher J. Bardeen, et al. "Feedback quantum control of molecular electronic population transfer", Chemical Physics Letters 280 (1997), pp. 151-158

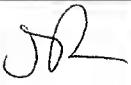
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OTHER PUBLICATIONS/MATERIALS (Including Author, Title, Date, Pertinent Pages)	
    	<ul style="list-style-type: none"> - Service "Training Lasers to Be Chemists", Science, Vol. 279, pp. 1847-1848 (1998) - Richard N. Zare "Laser Control of Chemical Reactions", Science, Vol. 279, pp. 1875-1879 (1998) - David C. Clary, "Quantum Theory of Chemical Reaction Dynamics", Science, Vol. 279, pp. 1879-1882 (1998) - Niels H. Damrauer, et al. "Femtosecond Dynamics of Excited-State Evolution in [Ru(bpy)₃]²⁺", Science, Vol. 275, pp. 54-57 (1997) - D. Zhong, et al. "Femtosecond Nucleophilic Substitution Reaction Dynamics" J. Am. Chem. Soc. 1997, 119 pp. 2305-2306

EXAMINER:	DATE CONSIDERED:
	4/19/01
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP form. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.</p>	

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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	FILING DATE

OTHER PUBLICATIONS/MATERIALS (Including Author, Title, Date, Pertinent Pages)	
   	<ul style="list-style-type: none"> - W.G. Fisher, et al. "Simultaneous Two-Photon Activation of Type-I Photodynamic Therapy Agents, Photochem. & Photobiol. 66(2), 1997 pp. 141-155 - Christopher R. Shea, et al. "Mechanistic Investigation of Doxycycline Photosensitization by Picosecond-pulsed and Continuous Wave Laser Irradiation of Cells in Culture", Journal of Biol. Chem. Vol. 265, No. 11, pp. 5977-5982 (1990) - Dennis H. Oh, et al. "Two-Photon Excitation of 4'-Hydroxymethyl-4,5', 8-Triethylpsoralen", Photochem. & Photobiol. 1997, 65(1), pp. 91-92 - S. Singh, et al. "Three-Photon Absorption in Naphthalene Crystals by Laser Excitation", Physical Review Letters, Vol. 12, pp. 612-614 (1964)

EXAMINER:	DATE CONSIDERED:
	4/19/01

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LIST OF PUBLICATIONS/MATERIALS
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Attorney Docket No.
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Filing Date

Group

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	FILING DATE

OTHER PUBLICATIONS/MATERIALS
(Including Author, Title, Date, Pertinent Pages)

JR

- Iain D. Miller "An Introduction to Medical Lasers", Biophotonics International, Sept/Oct 1997, pp. 50-51
- JR*
- Kim S. Frederickson, et al. "Precise Ablation of Skin With Reduced Collateral Damage Using the Femtosecond-Pulsed, Terawatt Titanium-Sapphire Laser", Arch Dermatol, Vol. 129, pp. 989-993 (1993)
- JR*
- Shinichi Watanabe, et al. "Comparative Studies of Femtosecond To Microsecond Laser Pulses on Selective Pigmented Cell Injury in Skin", Photochem. & Photobiol. Vol. 53, No. 6, pp. 757-762 (1991)
- JR*
- David Stern, et al. "Corneal Ablation by Nanosecond, Picosecond, and Femtosecond Lasers at 532 and 625 nm", Arch Ophthalmol, Vol. 107, pp. 587-592 (1989)

EXAMINER:

Joelyn Rau

DATE CONSIDERED:

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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	FILING DATE

OTHER PUBLICATIONS/MATERIALS (Including Author, Title, Date, Pertinent Pages)	
 	<ul style="list-style-type: none"> - Daniel X. Hammer, et al. "Experimental Investigation of Ultrashort Pulse Laser-Induced Breakdown Thresholds in Aqueous Media", IEEE Journal of Quantum Electronics, Vol. 32, No. 4, pp. 670-678 (1996) - Reginald Birngruber, et al. "Femtosecond Laser-Tissue Interactions: Retinal Injury Studies", IEEE Journal of Quantum Electronics, Vol. QE-23, No. 10, pp. 1836-1844 (1987)

EXAMINER:	DATE CONSIDERED:
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	<u>Applicant</u> Eric A. WACHTER et al	RECEIVED
	<u>Filing Date</u> June 12, 1998	JUN 11 1999 <u>Group</u> Group 3700

U.S. PATENT DOCUMENTS

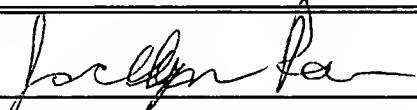
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

OTHER PUBLICATIONS
(Including Author, Title, Date, Pertinent Pages)

	Shear, J.B. et al, "Multiphoton-Excited Visible Emission by Serotonin Solutions," <i>Photochemistry and Photobiology</i> , vol. 65 no. 6, pp. 931-936, 1997.
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EXAMINER:		DATE CONSIDERED:	4/19/01
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	<u>Filing Date</u> June 12, 1998	<u>Group</u> 3738

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
JR	4,822,335	04/18/89	Kawai et al	604	20	09/08/87
JR	5,034,613	07/23/91	Denk et al	250	458	11/14/89
JR	5,586,981	12/24/96	Hu	606	9	08/25/94
JR	5,829,448	11/03/98	Fisher et al	128	898	10/30/96

FOREIGN PATENT DOCUMENT

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

OTHER PUBLICATIONS

(Including Author, Title, Date, Pertinent Pages)

JR	International Search Report for application no. PCT/US99/12056, dated September 13, 1999.
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EXAMINER:	<i>Jordan Rau</i>	DATE CONSIDERED:	<i>4/19/01</i>
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